

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/017432

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D71/70 B01D67/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 548 060 A (PENN STATE RESEARCH FOUNDATION INC.) 20 August 1996 (1996-08-20) column 4, line 2 - line 52 column 6, line 15 - column 14, line 7 claims 1-7,14,16	1-4, 17-21, 23-25
X	US 4 960 517 A (FILMTEC CORPORATION) 2 October 1990 (1990-10-02)  column 2, line 39 - line 52; claims 1-22; examples 4-16; tables 3,4	1-4, 17-21, 23-25

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search

21 February 2005

Date of mailing of the international search report

28/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Luethe, H

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/017432

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5548060	A	20-08-1996	NONE	
US 4960517	A	02-10-1990	AU 641675 B2	30-09-1993
			AU 6012190 A	20-06-1991
			BR 9003891 A	03-09-1991
			CA 2022612 A1	14-06-1991
			EP 0432358 A1	19-06-1991
			JP 3186326 A	14-08-1991